

REMARKS

Very thanks for Examination's suggestion and thanks for finding some citations about the present invention, thereby, the applicant may know more information about the invention. This case has been carefully reviewed and analyzed in view of the office action. All details of the reference prior arts are fully considered and compared with the present invention.

Indeed the citations disclose some features of the present invention, and the applicant agrees with these viewpoints, however applicant discovers that the main features of the present invention is not disclosed in the citation which can form the novelty and inventive step of the present invention.

Firstly, applicant decides to cancel Claim 1, without prejudice or disclaimer of the subject matter thereof, and add new claim 2 as the following. The added new claim 2 is based on the original claim 1 and the feature in the Fig. 2 of the specification. Thereby, it is assured that the new claims are based on the original claim and specification and thus no new matter is added. The relation of the new claims with respect to the original claims are shown in the following.

CLAIMS SHOW CHANGED AND NUMERALS FOR DISCUSSION IN THE REMARK

Claim 1. (Cancelled)

Claim 2. (New) ~~1.~~ A heat dissipating system of a personal computer having a heat dissipating unit; the heat dissipating unit including a power supply 10; the power supply including a housing 101 and a cover 102; a circuit 103 and a double suction turbine fan 11 being placed in a space formed by the housing and cover;

the double suction turbine fan 11 having a casing 2 and a set of blades 112; an upper and lower surface of the double suction turbine fan 11 having respective air inlets 113; one lateral side of the double suction turbine fan having an air vent outlet 114;

the housing having three sides which are arranged to have an approximate U shape; one side of the housing of the power supply having air outlets 104 which are arranged as a net, receptacles 105, and a power switch 106; another side of the housing ~~of the power supply~~ having a plurality of holes 107 arranged as like a net; the circuit being arranged at a lower side of the housing; the air inlet 113 at the upper surface of the double suction turbine fan 11 facing to the circuit 103; and the air vent 114 facing to the air outlet 104;

the cover 102 having three sides which are arranged to have an approximate U shape; a lower side of the cover having a round hole 108 corresponding to the air inlet 113 of the double suction turbine fan 11; and the air inlet 113 at the lower surface of the double suction turbine fan 11 facing to the round hole 108 of the cover 102;

wherein in assembly, the round hole 108 of the cover is located to be near an opening of a main board 20 to suck heat from the main board 20 and then the double suction turbine fan dissipates heat generated from the ~~main board power supply and the personal computer~~ so as to dissipate heat rapidly.

(A) DISCUSSION ABOUT THE NOVELTY OF THE PRESENT INVENTION

The main feature of the present invention is the total affects of the arrangement of the present invention.

The main feature of the new claim 2 will be described herein.

A housing 101 has three sides. A circuit 103 is arranged above the fan 11 and at the lower side of the housing. One side of the housing has net holes 107, and another side has another net holes 104.

A double suction turbine fan 11 has air inlets 113 at upper side and lower side thereof and a vent 114 at a lateral side thereof.

A cover 102 has a round hole 108 at a lower side thereof.

Furthermore, in the arrangement:

the air inlet 113 at the upper surface of the fan 11 being facing to the circuit 103; and the air vent 114 being facing to the air outlet 104; and

the air inlet 113 at the lower surface of the double suction turbine fan 11 being facing to the round hole 108 of the cover 102.

From above mentioned structure, in operation, the heat dissipating device 20 (or a main board 20 as described in the specification) is located below the round hole 108. Heat will be generated from circuit 103 and main board 20 which are facing to the air inlet 103 of the fan so that the heat can be sucked to the fan effectively. Then fresh air will be sucked from the net holes 107 so as to mix with the hot air from the air inlet 113 in the fan to reduce the heat in the hot air. Finally, the mixed air is vented out from the air vent 114. The heat dissipation of the present invention is effective.

Thus from above description, it is known that the main feature of the present invention (particularly for those described in new claim 2) is the integral structure of the components. This arrangement makes the heats from the heat sources (circuit 103 and main board 20) can be sucked to the fan directly with a shortest path. Moreover, the fresh air is sucked to the fan and then mixed with the hot air. Then the mix air is vented from the vent 114 and then further vented out from the net hole 104 with a shortest

flowing path.

However as disclosed in the office action, each the three citations USP2003/0043548, USP2004/0257764, and USP2004/0066622 has some part of the claim 2, but no feature provides any structure like those described in claim 2.

In fact, almost every single element of the claim 2 can be found in the prior art, but the novel feature of the present invention is the total affect as above mentioned.

In citation '622, see Fig. 3 of the citation, the fan 60, the holes 45, 311, etc. are arranged parallel. It has the structure like those disclosed in the new claim 2 of the present invention.

In citation '764, it only illustrates two holes 214, 221 are arranged at the upper and lower sides of the fan 110. The structure is different from the present invention.

In citation '548, the fan 21 has one inlet 212 and one outlet 213, which is different from the present invention. Furthermore, see Figs. 2 and 3, the arrangement of the holes are also different from the present invention. Only holes at two sides of the housing 4. No round hole (as 108 in the present invention). Thereby the upper side of the fan 21 is closed. Thereby it can not provide the same function as the present invention.

(B) RESULT

Since in above discussion, it is apparent that no prior art has the features of the present invention. Furthermore, the combinations of these citations USP2003/0043548, USP2004/0257764, and USP2004/0066622 cannot provide the structure arrangement of the present invention so as to provide the same preferred affect as that in the present invention. Furthermore, as we know that no other prior art has features of the present

invention. Thus, the claim 2 of the present invention is novel and inventive.

Applicant requests and authorizes Examiner to amend the claims of the present invention so that the claim can match the requirement of U. S. Patent. Attentions of Examiner to this matter is greatly appreciated.

It is now believed that the subject Patent Application has been placed in condition for allowance, and such action is respectively requested.

Respectfully submitted.



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